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APPLICATION NO.	F	ILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/415,920	10/12/1999		TOSHIHIRO NAGOSHI	5905.0035-01 5458	
22852	7590	05/13/2003			
FINNEGAN, HENDERSON, FARABOW, GARRETT & DUNNER LLP 1300 I STREET, NW WASHINGTON, DC 20005				EXAMINER	
				YANG, RYAN R	
WASHINGI	ON, DC	20005	·	ART UNIT	PAPER NUMBER
				2672	3
				DATE MAILED: 05/13/2003	

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)					
Office Action Summan	09/415,920	NAGOSHI ET AL.					
Office Action Summary	Examiner	Art Unit					
The SEAU INIO DATE SALE	Ryan R Yang	2672					
The MAILING DATE of this communication app Period for Reply	ears on the cover sneet with the c	orrespondence address					
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a reply if NO period for reply is specified above, the maximum statutory period w  - Failure to reply within the set or extended period for reply will, by statute,  - Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).  Status	i6(a). In no event, however, may a reply be time within the statutory minimum of thirty (30) days ill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).					
1) Responsive to communication(s) filed on	<u> </u>						
2a)⊠ This action is <b>FINAL</b> . 2b)□ Thi	s action is non-final.						
<ol> <li>Since this application is in condition for allowa closed in accordance with the practice under E Disposition of Claims</li> </ol>	nce except for formal matters, pi Ex parte Quayle, 1935 C.D. 11, 4	rosecution as to the merits is 153 O.G. 213.					
4) Claim(s) 15,17-23 and 28-38 is/are pending in	the application.						
4a) Of the above claim(s) is/are withdrawn from consideration.							
5) Claim(s) is/are allowed.							
6)⊠ Claim(s) <u>15,17,18,20-22,28,35,36 and 38</u> is/are rejected.							
7)⊠ Claim(s) <u>19,23,29-34,37</u> is/are objected to.							
8) Claim(s) are subject to restriction and/or	election requirement.						
Application Papers							
9) The specification is objected to by the Examiner							
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
11) The proposed drawing correction filed on is: a) approved b) disapproved by the Examiner.							
If approved, corrected drawings are required in rep  12) The oath or declaration is objected to by the Exa	•						
	arimer.						
Priority under 35 U.S.C. §§ 119 and 120		) (I) (O					
13) Acknowledgment is made of a claim for foreign	prioπty under 35 U.S.C. § 119(a	)-(a) or (t).					
a) ☐ All b) ☐ Some * c) ☐ None of:	. have been as a load						
1. Certified copies of the priority documents have been received.							
<u> </u>	2. Certified copies of the priority documents have been received in Application No						
<ul> <li>3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).</li> <li>* See the attached detailed Office action for a list of the certified copies not received.</li> </ul>							
14) Acknowledgment is made of a claim for domestic	c priority under 35 U.S.C. § 119(	e) (to a provisional application).					
a) ☐ The translation of the foreign language prov 15)☐ Acknowledgment is made of a claim for domestic							
Attachment(s)							
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449) Paper No(s)	5) Notice of Informal F	(PTO-413) Paper No(s) Patent Application (PTO-152)					

U.S. Patent and Trademark Office PTO-326 (Rev. 04-01) Art Unit: 2672

#### DETAILED ACTION

1. This action is responsive to communications: Amendment, filed on 3/18/2003. This action is final.

- 2. Claims 15, 17-23 and 28-38 are pending in this application. Claims 15, 28 and 38 are independent claims. In the Amendment, filed on 3/18/2003, claims 15, 17-21 and 23 were amended, claims 16 were canceled, and claims 28-38 were added.
- 3. This application is a divisional application of application No. 09/975,966 dated 11/21/1997.

This application claims foreign priority dated 11/22/1996.

4. The present title of the invention is "Game device, picture data forming method and medium" as filed ariginally.

# Claim Rejections - 35 USC § 102

5. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.

The changes made to 35 U.S.C. 102(e) by the American Inventors Protection Act of 1999 (AIPA) and the Intellectual Property and High Technology Technical Amendments Act of 2002 do not apply when the reference is a U.S. patent resulting

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directly or indirectly from an international application filed before November 29, 2000. Therefore, the prior art date of the reference is determined under 35 U.S.C. 102(e) prior to the amendment by the AIPA (pre-AIPA 35 U.S.C. 102(e)).

6. Claims 15, 17-18, 22 and 38 are rejected under 35 U.S.C. 102(e) as being anticipated by Fukuda et al. (US 6,329,991).

As per claim 15, Fukuda et al., hereinafter Fukuda, discloses a game device for displaying, as a picture, an object moving in accordance with developments of a game, said game device comprising:

means for reading a present position of said object (Figure 3 105 "for detecting a contact position of the trace input pen 13 and inputting image data comprising a trace written by the pen as coordinate dot train", column 2, line 38-42); and

trace mark drawing means for drawing a trace mark in length within a predetermined range from said present position according to a movement of said object (Figure 3 13), said trace mark having a plurality of portions (Figure 5) and for extinguishing said trace mark from a rear section of each portion by making said rear section of each portion light in color with lapse of time ("brightness, which is one display attribute of the trace 21 which has already been drawn, is changed to a lower value", column 2, line 53-55).

7. As per claim 17, Fukuda demonstrated all the elements as applied to the rejected dependent claim 15, supra, and further discloses a trace pattern assign to said plurality of portions is previously stored as a pattern having different density in storage means

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(Figure 6 48 where the attributes of the traces are updated, so when the new trace is drawn the updated traces are previously stored pattern).

- 8. As per claim 18, Fukada demonstrated all the elements as applied to the rejected independent claim 15, supra, and further discloses said trace pattern assigned to said plurality of portions is obtained by changing the transparency of a basic trace pattern (Figure 7 54).
- 9. As per claim 22, Fukuda demonstrated all the elements as applied to the rejected independent claim 15, supra, and further discloses said trace mark drawing means deletes the drawn trace mark when said object stops and a predetermined time has passed (Figure 7 55 where Q is a function of time).
- 10. As per claim 38, Fukuda discloses a method of forming picture data for a game device for displaying, as a picture, an object moving in accordance with developments of a game, said method comprising:

reading a present position of said object (Figure 3 105 "for detecting a contact position of the trace input pen 13 and inputting image data comprising a trace written by the pen as coordinate dot train", column 2, line 38-42); and

drawing a trace mark in length within a predetermined range from said present position according to the movements of said object (Figure 3 13), said trace mark having a plurality of portions (Figure 5); and

extinguishing said trace mark from a rear section of each portion by making said rear section of each portion lighter in color with lapse of time ("brightness, which is one

display attribute of the trace 21 which has already been drawn, is changed to a lower value", column 2, line 53-55).

# Claim Rejections - 35 USC § 103

- 11. The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.
- 12. Claims 20 and 21 are rejected under 35 U.S.C. 103(a) as being unpatentable over Fukuda et al. and further in view of Willan (EP 0367405).

As per claims 20 and 21, Fukuda demonstrated all the elements as applied to the rejected claims 15, 17, or 18, supra.

Fukuda teaches generating trace mark that fades in time. It is noted that Fukuda does not explicitly teach "said trace mark drawing means adjusts a timing to extinguish the drawn trace according to a moving speed of said object", however, this is known in the art as taught by Willan. Willan teaches a graphics input system in which the "shape, width, density, texture and colour of the resultant visual effect" were determined due to velocity, acceleration or higher derivatives (column 1, line 45- column 2, line 3).

Thus, it would have been obvious to one of ordinary skill in the art at the time the invention was made to incorporated the teaching of Willan into Fukada because Fukada teaches a fading trace mark and Willan teaches the trace could be affected by the drawing speed in order to make the trace visually more effective (column 2, line 3).

13. Claims 28, 35 and 36 are rejected under 35 U.S.C. 103(a) as being unpatentable over Fukuda et al. and further in view of Gengler et al. (5,260,695).

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As per claim 28, Fukuda discloses a game device for displaying, as a picture, an object moving in a virtual space in accordance with developments of a game, said game device comprising:

processing (Figure 3 104) and displaying means (Figure 3 106) for processing and displaying a trace mark according to movements of said object during the processing of said game, and a past trace mark (Figure 5).

Fukuda teaches generating trace mark that fades in time. It is noted that Fukuda does not explicitly teach "first storage means for storing said trace mark after said game ends; and read out means for reading from said first storage means said trace mark that is stored in the first storage means before a beginning of said game and for providing said trace mark as said past trace mark to said processing and displaying means", however, this is known in the art as taught by Gengler et al., hereinafter Gengler. Gengler discloses an image fader system in which fading images are stored and displayed (Figure 2 202).

Thus, it would have been obvious to one of ordinary skill in the art at the time the invention was made to incorporate the teaching of Gengler into Fukuda because Fukuda discloses a method of generating trace mark that fades in time and Gengler discloses the fading images can be stored and re-displayed in order to improve its processing speed.

14. As per claim 35, Fukuda and Gengler demonstrated all the elements as applied to the rejection of independent claim 28, supra, Fukuda and further discloses said processing and display means comprises:

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means for reading a present position of said object (Figure 3 105); and trace mark drawing means for drawing the trace mark in length within a predetermined range from the present position (Figure 3 13) and for extinguishing a bottom position of said trace mark by making it gradually lighter in color with a lapse of time ("brightness, which is one display attribute of the trace 21 which has already been drawn, is changed to a lower value", column 2, line 53-55).

15. As per claim 36, Fukuda and Gengler demonstrated all the elements as applied to the rejection of independent claims 15, 17-18 or 28, supra, and Fukuda further discloses a medium with a program stored thereon, the program for making a computer system function as a game device according to any one of claims 15, 17-18, or 28-35 (Figure 3 102).

# Allowable Subject Matter

16. Claims 19, 23, 29-34 and 37 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

## Response to Arguments

17. Applicant's arguments filed 3/18/2003 have been fully considered but they are not persuasive.

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Applicant argues Fukuda's teaching is to change the appearance of the entire trace, not a plurality of traces. After reviewing Figure 9, the Examiner finds a plurality of traces is displayed; the plurality of traces also qualifies as a plurality of portions.

18. The Examiner corrected the 102(b) rejection to 102(e) due to typographical error.

### Conclusion

- 19. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.
- 20. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

## Inquiries

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21. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Ryan Yang whose telephone number is (703) 308-

6133.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Michael Razavi, can be reached at (703) 305-4713.

Any response to this action should be mailed to:

Commissioner of Patents and Trademarks

Washington, D.C. 20231

or faxed to:

(703) 872-9314 (for Technology Center 2600 only)

Hand-delivered responses should be brought to Crystal Park II, 2121 Crystal

Drive, Arlington, VA, Sixth Floor (Receptionist).

Any inquiry of a general nature or relating to the status of this application or

proceeding should be directed to the Technology Center 2600 Customer Service

Office whose telephone number is (703) 305-47000377.

Ryan Yang April 25, 2003

MICHAEL RAZAVI

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SUPERVISORY PATEUT EXAMINER

TECHNOLOGY CENTER 2800